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|    | Ш   |    |    |    |     |    |

Application/Control No.

Applicant(s)/Patent under Reexamination

10/551,167 Examiner

LANDRIEVE, FRANCK

Art Unit

Tung S. Lau

2863

| <b>√</b> | Rejected |
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| ı        | Allowed  |

(Through numeral) Cancelled

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**Appeal** Α

Restricted

Interference

0 Objected

|              |                      | _               |              |          |  |                                     | _  |                |              | 1              |
|--------------|----------------------|-----------------|--------------|----------|--|-------------------------------------|--|----------------|--------------|----------------|
| Cla          | im                   | 1               |              |          |  | Dat                                 | 6  |                |              |                |
| - 012        | <u> </u>             | 7               |              | Т        | Т  | T                                   | Ť  | Т              | T            | ı              |
| =            | Original             | 1046 >>         | Γ            | 1        |  |                                     |  |                | ŀ            |                |
| Finat        | <u>-</u>             | 1               | ļ            |          | 1  |                                     | Ι.   | İ              |              | l              |
| 讧            | 🚡                    | $ \mathcal{A} $ |              |          | 1  | ]                                   | 1  | 1              |              | 1              |
|              | ~                    | 10              | 1            |          | ŀ  | 1                                   | 1  |                | 1            | l              |
|              | 7                    | V               |              |          |  | Т                                   |  | Т              |              |                |
|              | 5                    | V               | 1            | $\vdash$ | ✝  | T                                   | 1  | T              |              |                |
|              | 2                    | 1               | <del> </del> | ┢        | $\vdash$   | ╁                                   | +  | ╁              | ╁─           | -              |
|              | 3                    | ₩               | ├            | ⊢        | ├  | ⊢                                   | $\vdash$   | ⊢              | ⊢            | }              |
|              | 4                    | ╙               | <u> </u>     |          | ⊢  | ⊢                                   | ╄  | <u> </u>       | ₩            | <del>!</del> — |
|              | 5                    | 1               | <u> </u>     | <u> </u> | _  | _                                   | <u> </u>   | <u> </u>       | _            |                |
|              | 6                    | Щ_              |              | _        | L  | 1                                   |  |                |              |                |
|              | 7                    | H               |              |          |  | 1                                   |  |                |              |                |
|              | 8<br>9               |                 |              |          |  | П                                   |  |                | Π            |                |
|              | 9                    | П               |              |          |  | Г                                   | Π  | Г              | Т            | Τ              |
|              | 10                   |                 |              | Т        | T  | _                                   | T  | T              | Т            | ऻ              |
|              | 11                   | #               | ╁            | ┢        | ✝  | ┰                                   | ╁  | $\vdash$       | ╁            | $\vdash$       |
|              | 12                   | #               | $\vdash$     | -        | $\vdash$   | $\vdash$                            | +-   | $\vdash$       | $\vdash$     | -              |
|              | 12                   | H−              | -            | $\vdash$ | $\vdash$   | $\vdash$                            | ┼-   | ╁              | <del> </del> | -              |
|              | 11<br>12<br>13<br>14 | #               | <u> </u>     | <u> </u> | $\vdash$   | ├                                   | <del>  -</del>   | ├              | <del> </del> | <del> </del>   |
|              | 14                   | 1.              | ļ            |          | _  | <b> </b>                            | <b> </b>   | <del> </del>   | <u> </u>     | <u> </u>       |
|              | 15                   | 1               | <u> </u>     | <u> </u> | oxdot  | <u> </u>                            | <u> </u>   | _              | L            | <u> </u>       |
|              | 15<br>16<br>17       | J               |              |          | L  | 乚                                   | L  | L              | L            | L              |
|              | 17                   |                 |              |          | Γ  |                                     |  |                |              |                |
|              | 18<br>19             |                 |              |          | Г  | Τ                                   |  |                |              | П              |
|              | 19                   |                 | $\vdash$     | $\vdash$ | $\vdash$   | 一                                   | 1  | $\vdash$       | T            | <del> </del>   |
|              | 20                   |                 | ┢            | _        | <del> </del>                                     | ╁╌                                  | $\vdash$   | ⊢              | ┢            | -              |
| -            | 20                   | $\vdash$        | $\vdash$     | $\vdash$ | ┝  | ⊢                                   | ├  | <del> </del>   |              | ⊢              |
|              | 21<br>22             | $\vdash$        | _            | ⊢        |  | ├                                   | ├  | -              | _            | <del> </del>   |
|              | 22                   | $\vdash$        | _            | _        | <u> </u>   | <u> </u>                            | ╙  | <u> </u>       | <u> </u>     | <u> </u>       |
|              | 23<br>24<br>25       | Щ               |              |          | _  | L                                   |  | _              | _            |                |
|              | 24                   |                 |              |          |  |                                     |  |                | İ            |                |
|              | 25                   |                 |              |          |  |                                     |  | Π              |              |                |
|              | 26<br>27             |                 |              |          |  |                                     |  |                |              |                |
|              | 27                   |                 |              |          |  |                                     |  | _              | Т            |                |
|              | 28                   |                 |              |          | _  | ┪                                   | $\vdash$   | $\vdash$       |              |                |
|              | 29                   | _               |              | -        |  | $\vdash$                            | $\vdash$   | ┢              | ┢            | ┢              |
| $\dashv$     | 30                   |                 | _            |          | ┝  | ⊢                                   | <u> </u>   | ⊢              | -            | -              |
|              | 30                   | Щ               |              |          | $\vdash$   | <u> </u>                            |  | <del> </del> — | <del> </del> | -              |
|              | 31                   | Щ               |              |          | $\vdash$   | $\vdash$                            |  | _              | <u> </u>     | <u> </u>       |
|              | 32<br>33             | Ш               | <u> </u>     |          | _  | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | <u> </u>   | <u>_</u>       |              | Ш              |
|              | 33                   | $\Box$          |              |          | L  | L                                   | $ldsymbol{ld}}}}}}$ |                | L            |                |
| T            | 34                   |                 |              |          |  |                                     |  |                |              |                |
|              | 35                   |                 |              |          |  | Г                                   | П  |                |              |                |
|              | 36                   |                 |              |          |  | Г                                   | Г  | $\vdash$       |              |                |
| $\neg \neg$  | 37                   | $\dashv$        |              |          | _  | $\vdash$                            | $\vdash$   | $\vdash$       | _            | $\vdash$       |
|              | 38                   | $\dashv$        |              | _        | <del>                                     </del> | $\vdash$                            |  | $\vdash$       |              | -              |
|              | 39                   | Н               | $\vdash$     | -        | -  | $\vdash$                            | $\vdash$   | -              | $\vdash$     | $\vdash$       |
|              |                      | $\dashv$        | -            |          | <u> </u>   | $\vdash$                            | $\vdash$   | <u> </u>       | -            | $\vdash$       |
|              | 40                   |                 | $\dashv$     | _        | <u> </u>   | <u> </u>                            | $\vdash$   | _              | $\vdash$     | $\vdash$       |
|              | 41                   |                 | $\Box$       |          | <u> </u>   | $\vdash$                            | <u> </u>   | Ш              |              | L.,            |
|              | 42                   |                 |              |          |  |                                     |  |                |              | Ш              |
| T            | 43                   |                 |              |          |  |                                     |  |                |              |                |
|              | 44                   |                 | $\neg$       |          |  |                                     |  |                |              |                |
| $\neg$       | 45                   |                 |              |          | _  | _                                   | $\vdash$   |                |              | $\vdash$       |
| <del> </del> | 46                   |                 | -            |          |  |                                     | $\vdash$   |                |              |                |
|              | 47                   | -               | -            | -        |  | $\vdash$                            | $\vdash$   |                |              |                |
|              |                      |                 | _            |          |  | -                                   |  |                | $\vdash$     | $\vdash$       |
|              | 48                   |                 |              | _        |  |                                     | Ь  | <u> </u>       | _            | -              |
|              | 49                   |                 |              |          |  |                                     |  |                |              | Ш              |
| I            | 50                   | <b> </b>        |              |          | 1  | 1                                   |  |                | 1 1          |                |

| Clá      | aim      |          |          |          |          | Dat       |              |          |          |          | 1 /      | Cla      | in       | Г            |          |          |          | 204      |          |          |          |               |
|----------|----------|----------|----------|----------|----------|-----------|--------------|----------|----------|----------|----------|----------|----------|--------------|----------|----------|----------|----------|----------|----------|----------|---------------|
| Uli      | 1        | 1        |          |          | T .      | Dat       | <u> </u>     | Т        |          | 1        | 1 }      | Cla      |          | <del>-</del> |          |          |          | Dat      | <u> </u> | I        | Г.       | $\overline{}$ |
| Finai    | Original | 10-9-6   |          |          |          |           |              |          |          |          |          | Final    | Original |              |          |          |          |          |          |          |          |               |
|          | (3)      | V        |          |          |          |           |              |          | $\vdash$ |          | 1 1      |          | 51       | Ħ            |          |          | $\vdash$ | Г        | T        |          |          |               |
|          | 2        | V        | $\vdash$ |          |          |           | t            |          |          |          | it       |          | 52       | Н            |          |          |          | _        | $\vdash$ | $\vdash$ | 1        | _             |
|          | 3        | 1        |          |          |          | T         | <u> </u>     | П        |          |          | 1 1      |          | 53       | П            |          |          | <u> </u> |          | $\vdash$ |          |          |               |
|          | 4        |          |          | $\vdash$ | Г        |           |              | ١.       |          |          | 1 1      |          | 54       |              |          |          | ļ        | $\vdash$ | $\vdash$ | Т        | _        |               |
|          | 5        | Г        |          |          | Г        | Т         |              |          |          |          | 1 1      |          | 55       | П            |          |          |          | $\vdash$ | _        |          |          |               |
|          | 6        |          |          |          | Г        |           |              |          |          |          | 1        |          | 56       | П            |          |          |          |          |          | Т        | Г        |               |
|          | 7        |          |          |          |          |           |              | Г        |          |          | 1 [      |          | 57       | П            |          |          |          | П        | Π        | Π        |          |               |
|          | 8        |          |          |          |          |           |              |          |          |          |          |          | 58       |              |          |          |          |          |          |          |          |               |
|          | 9        |          |          |          |          |           |              |          |          |          | ] [      |          | 59       |              |          |          |          |          |          |          |          |               |
|          | 10       |          |          |          |          | L         |              | L        |          |          | ] [      |          | 60       |              |          |          |          |          |          |          |          |               |
|          | 11       | $\perp$  |          | _        |          |           | L            | L        |          |          |          |          | 61       |              |          |          |          |          |          | L        |          |               |
|          | 12       | $\perp$  |          |          | ┖        |           | L            |          |          |          |          |          | 62       | Ш            |          |          |          |          |          |          |          |               |
|          | 13       | $\perp$  |          |          |          | L         |              | _        |          |          |          |          | 63       |              |          |          |          |          | <u> </u> |          |          |               |
|          | 14       | ٦,       |          |          |          | L         |              | 匚        |          |          |          |          | 64       |              |          |          |          |          |          |          |          |               |
|          | 15       | 7        |          |          | 匚        | <u> </u>  | <u> </u>     | _        |          |          |          |          | 65       | Ш            |          |          |          |          |          |          | Ш        | _             |
|          | 16       | J        |          |          | <u> </u> | <u> </u>  | _            | _        |          | _        |          |          | 66       |              |          |          |          | _        | L        |          |          |               |
|          | 17       |          |          |          | _        | <u> </u>  | _            |          |          | _        |          |          | 67       |              | _        |          |          |          |          |          | Щ        | _             |
| _        | 18       |          | _        | _        | <u> </u> | _         | <u> </u>     | <u> </u> |          |          |          |          | 68       |              |          |          |          | <u> </u> | <u> </u> |          |          | _             |
| _        | 19       |          |          | _        |          | <u> </u>  | _            | _        |          |          |          |          | 69       | _            |          |          | _        |          | _        |          |          | _             |
| _        | 20       | _        |          |          |          | _         | <u> </u>     |          |          |          |          |          | 70       |              | _        |          |          | _        |          | _        |          | _             |
| -        | 21       |          | _        | _        |          | -         | <u> </u>     | _        | Щ        |          |          |          | 71       | $\dashv$     | _        | _        |          |          | _        | <u> </u> | _        |               |
|          | 22       |          | _        |          |          | <u> </u>  | ┡            |          | Н        |          | -        |          | 72       | Н            | -        | _        |          |          |          |          |          | 괵             |
|          | 23       | _        |          |          | <u> </u> | <u> </u>  |              |          |          |          | -        |          | 73       | $\dashv$     | _        | _        |          | _        |          |          |          | 4             |
| $\dashv$ | 24<br>25 |          | $\dashv$ | _        | _        | -         | ┝            | H        | $\vdash$ | _        | -        |          | 74       | $\dashv$     | -        | _        |          |          |          | L        | Н        | $\dashv$      |
|          | 26       |          | -        |          | ┝        | -         | <del> </del> |          | $\dashv$ | -        | -        |          | 75<br>76 | $\dashv$     | -        |          |          |          |          | _        | -        | $\dashv$      |
|          | 27       | $\dashv$ | -        | -        |          | -         | $\vdash$     | -        |          | _        | <b> </b> |          | 77       | $\dashv$     | -        |          |          | _        |          |          | Н        | ᅱ             |
| $\dashv$ | 27<br>28 | $\dashv$ | $\dashv$ |          | -        | -         | ┝            | $\vdash$ |          | _        | ╽┟       |          | 78       | -            | ┥        | _        | _        |          |          | _        |          | $\dashv$      |
| $\neg$   | 29       | -        | -        | _        | $\vdash$ |           |              |          | $\dashv$ | _        | <br> -   |          | 79       |              | -        | $\dashv$ |          |          |          |          |          | $\dashv$      |
| ┪        | 30       | -        |          | _        | _        | $\vdash$  | $\vdash$     | Н        |          |          | -        |          | 80       |              | -        | $\dashv$ | _        |          |          |          | $\dashv$ | $\dashv$      |
| -        | 31       | $\dashv$ |          |          |          | -         |              | $\vdash$ | _        |          | <b> </b> | $\dashv$ | 81       | $\dashv$     |          | $\dashv$ |          |          |          | $\vdash$ | $\dashv$ | $\dashv$      |
| ┪        | 32       | $\neg$   |          |          |          |           |              | H        |          | _        |          |          | 82       | $\neg$       | $\neg$   |          |          |          |          | $\vdash$ |          | $\neg$        |
|          | 33       | $\neg$   |          |          | -        | Т         |              |          |          |          |          |          | 83       |              | _        | $\neg$   |          | -        | _        |          |          |               |
| コ        | 34       | $\neg$   | $\neg$   |          | _        | $\vdash$  |              |          |          |          |          |          | 84       |              | $\neg$   | ┪        | -        |          |          | $\neg$   |          |               |
|          | 35       | $\neg$   | $\neg$   |          |          |           |              |          |          | _        | -        |          | 85       |              |          |          | _        |          |          |          |          | $\neg$        |
|          | 36       |          | $\neg$   |          |          |           |              |          |          |          |          |          | 86       |              |          | T        |          |          |          |          |          |               |
|          | 37       |          |          |          |          |           |              |          |          |          |          |          | 87       |              |          |          |          |          |          |          |          |               |
|          | 38       |          |          |          |          |           |              |          |          |          |          |          | 88       |              |          |          |          |          |          |          |          |               |
|          | 39       |          |          |          |          |           |              |          |          |          |          |          | 89       |              | J        |          |          |          |          |          |          |               |
|          | 40       | $\Box$   | $\Box$   |          |          |           |              |          |          |          |          |          | 90       |              |          |          |          |          |          |          |          |               |
| _        | 41       | $\perp$  | $\perp$  |          |          | Ш         |              | $\Box$   | [        |          |          |          | 91       | $\Box$       |          |          |          |          |          |          |          |               |
|          | 42       |          |          |          |          | Ш         |              | $\Box$   |          |          |          | [        | 92       |              |          |          |          |          |          |          |          |               |
|          | 43       |          | _        |          |          | Ш         |              |          | _        |          | L        |          | 93       | _[           |          | _        | _        |          |          |          |          |               |
| _        | 44       | _        | _        |          |          |           |              |          | _        |          | L        |          | 94       |              | _        | _        |          |          | _        |          | _        | _             |
| _        | 45       | _        | _        |          |          | Ш         |              |          |          | _        | -        |          | 95       | _            | _        | _        | _        | _        |          |          |          |               |
| _        | 46       | _        | _        | _        | Ш        | Ш         | Щ            |          | -        |          | L        |          | 96       | _            | _        | _        | _        | _        | _        |          |          |               |
|          | 47       |          | }        |          | =        |           |              |          | _        | _        | . ⊦      |          | 97       | -            | _        | _        | _        |          |          |          | _        | _             |
| 4        | 48       | $\dashv$ |          | _        |          | <b> </b>  |              | _        |          | _        | Ĺ        |          | 98       | $\perp$      | $\dashv$ | _        | _        | _        | _        | _        |          | _             |
|          | 49       | -        |          | $\dashv$ |          | Ш         |              | -        |          | $\dashv$ | -        |          | 99       | $\dashv$     | 4        | $\dashv$ | $\dashv$ |          | $\dashv$ |          |          | $\dashv$      |
| _        | 50       | 1        |          |          |          | <u></u> _ |              |          |          |          | L        |          | 100      |              | _        |          |          |          |          | 1        |          |               |

|          | oim                                    | Date         |                   |                |              |  |  |  |  |           |
|----------|--|--------------|-------------------|----------------|--------------|--|--|--|--|-----------|
| U        | aim                                    | $\vdash$     | т                 | _              | т            | µat<br>T                               | <del>U</del>                           | _                                      | 1  | П         |
| Final    | Original                               |              | •                 |                |              |  |  |  |  |           |
|          | 101<br>102                             |              |                   |                |              |  |  |  |  |           |
|          | 102                                    | _            | _                 | ┖              | L            | ╙                                      | ــــــــــــــــــــــــــــــــــــــ | ╙                                      | ╙  |           |
|          | 103                                    | _            | <u> </u>          | ┞              | <u> </u>     | _                                      | ↓_                                     | ــــــــــــــــــــــــــــــــــــــ | ╙  | _         |
|          | 104                                    | ├            |                   | <del> </del> — | -            | ┼                                      | ┞                                      | ├                                      | ├-   | Н         |
|          | 105<br>106                             | $\vdash$     | -                 | ╁              | ┝            | ╁                                      | ╌                                      | ├-                                     | ╁  | $\vdash$  |
|          | 107                                    | +            | ╁                 | ╁              | ⊢            | ╁                                      | ╁                                      | ╁                                      | ╁  | Н         |
|          | 108                                    | 1-           | ╫                 | $\vdash$       | 一            | $\vdash$                               |  | $\vdash$                               | $\vdash$   | $\vdash$  |
|          | 109                                    | 1            | 1                 |                | Т            | 1                                      | 1                                      | ✝                                      | $\vdash$   | $\vdash$  |
|          | 110                                    |              |                   |                |              |  |  |  |  |           |
|          | 111                                    | _            | _                 |                |              |  |  |  |  | Ш         |
|          | 112<br>113<br>114                      | ↓_           | 1                 | <u> </u>       | <u> </u>     | ــــــــــــــــــــــــــــــــــــــ | L                                      | _                                      | L  | $\sqcup$  |
|          | 113                                    | ╄            | <del> </del>      | -              | <u> </u>     | ╄                                      | <u> </u>                               | ļ                                      | -  | Н         |
|          | 114                                    |              | -                 | ├-             | -            | ⊢                                      | $\vdash$                               | $\vdash$                               | ┝  | Н         |
|          | 116                                    | -            | $\vdash$          | ├              | ├            | ╁                                      | ╀─                                     | ├                                      | ├  | $\vdash$  |
|          | 115<br>116<br>117                      | ┼            | ╁                 | ╁              | -            | ╁                                      | $\vdash$                               | ╁╴                                     | ╁╴   | $\vdash$  |
| -        | 118                                    | 1            | $\vdash$          | ╁┈             | $\vdash$     | <del> </del>                           | ┢                                      | $\vdash$                               | $\vdash$   | H         |
|          | 118<br>119                             |              |                   | $\vdash$       |              | $\vdash$                               | l-                                     | 1                                      |  | $\vdash$  |
|          | 120                                    |              | T                 | l              |              | İ                                      |  | · · · ·                                |  | П         |
|          | 120<br>121<br>122<br>123<br>124<br>125 |              |                   |                |              |  |  |  |  |           |
|          | 122                                    |              |                   | L              |              |  |  |  |  |           |
|          | 123                                    | _            |                   | L              | L            | _                                      | L                                      | _                                      | _  |           |
|          | 124                                    | _            | <u> </u>          | ⊢              | <u> </u>     | <u> </u>                               | <u> </u>                               |  | <u> </u>   | Ш         |
|          | 125                                    | <del> </del> | -                 | <u> </u>       | ├            | -                                      | -                                      | _                                      | ⊢  | -         |
|          | 120                                    | ├            | ╁                 | ⊢              |              | ⊢                                      | -                                      |  |  | Н         |
|          | 126<br>127<br>128                      | $\vdash$     | $\vdash$          | ┢              | $\vdash$     | $\vdash$                               | $\vdash$                               | $\vdash$                               |  | -         |
|          | 129                                    | 1            | $\vdash$          | $\vdash$       | _            | $\vdash$                               | ┪                                      |  | <del>                                     </del> | Н         |
|          | 129<br>130                             |              |                   |                |              |  |  |  | $\vdash$   | П         |
|          | 131                                    |              |                   |                |              |  |  |  |  |           |
|          | 132                                    |              |                   |                |              |  |  | Ŀ                                      |  |           |
|          | 133                                    | _            | <u> </u>          | <u> </u>       |              | _                                      | ļ                                      | _                                      |  | Ц         |
|          | 134                                    | -            | <del> </del>      | <u> </u>       | <u> </u>     | <u> </u>                               | <u> </u>                               | _                                      | _  | Н         |
|          | 135<br>136                             | $\vdash$     | $\vdash$          | <del> </del>   | $\vdash$     | $\vdash$                               | $\vdash$                               | -                                      | $\vdash$   | Н         |
|          | 137                                    | -            | -                 | $\vdash$       | <del> </del> | $\vdash$                               | -                                      | -                                      |  | Н         |
| $\dashv$ | 138                                    | $\vdash$     | $\vdash$          | $\vdash$       |              | -                                      | $\vdash$                               | $\vdash$                               |  | H         |
|          | 139                                    | <u> </u>     |                   | Г              | Т            | $\vdash$                               | $\vdash$                               | Г                                      | _  | Н         |
|          | 140                                    |              |                   |                |              |  |  |  |  |           |
|          | 141                                    |              |                   |                |              |  |  |  |  |           |
|          | 142                                    |              |                   |                |              |  |  | _                                      |  | Ш         |
|          | 143                                    | <u> </u>     | $ldsymbol{f eta}$ | Ш              |              | _                                      | _                                      | _                                      | L  | Ш         |
|          | 144                                    | _            | $\vdash$          |                |              | $\vdash$                               | _                                      | _                                      | -  | $\square$ |
|          | 145<br>146                             | <u> </u>     | -                 | -              | -            | <u> </u>                               |  | -                                      | _  |           |
|          | 147                                    | -            | -                 | <b> </b>       |              | $\vdash$                               | —                                      | $\vdash$                               | $\vdash$   | $\vdash$  |
|          | 148                                    | -            | $\vdash$          |                |              | -                                      | -                                      | $\vdash$                               | -  | H         |
|          | 149                                    |              |                   | Н              |              | Н                                      |  | H                                      | -  | H         |
|          | 150                                    |              |                   |                |              |  |  |  | ┌  |           |
|          |  |              | _                 | _              |              | _                                      | _                                      | _                                      |  |           |